

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (previously presented): An isolated polynucleotide comprising a nucleotide sequence encoding a polypeptide having cysteine proteinase activity, wherein the amino acid sequence of the polypeptide and the amino acid sequence of SEQ ID No. 2 have at least 70% sequence identity based on the ClustalW alignment method; or the complement of the nucleotide sequence, wherein the complement contains the same number of nucleotides as the nucleotide sequence, and the complement and the nucleotide sequence are 100% complementary.

Claim 2 (previously presented): The polynucleotide of Claim 1, wherein the amino acid sequence of the polypeptide and the amino acid sequence of SEQ ID No. 2 have at least 85% sequence identity based on the ClustalW alignment method.

Claim 3 (original): The polynucleotide of Claim 1, wherein the nucleotide sequence comprises the nucleotide sequence of SEQ ID No. 1.

Claim 4 (original): The polynucleotide of Claim 1, wherein the polypeptide comprises the amino acid sequence of SEQ ID No. 2.

Claim 5 (withdrawn): An isolated polynucleotide comprising a nucleotide sequence encoding a polypeptide having cysteine proteinase inhibitor activity, wherein the amino acid sequence of the polypeptide and the amino acid sequence are selected from the group consisting of SEQ ID Nos. 4, 10, 12 and 14 and have at least 80% sequence identity based on the ClustalW alignment method; or the complement of the nucleotide sequence, wherein the complement contains the same number of nucleotides as the nucleotide sequence, and the complement and the nucleotide sequence are 100% complementary.

Claim 6 (withdrawn): The polynucleotide of Claim 5, wherein the amino acid sequence of the polypeptide and the amino acid sequence selected have at least 85% sequence identity based on the ClustalW alignment method.

Claim 7 (withdrawn): The polynucleotide of Claim 5, wherein the nucleotide sequence comprises the nucleotide sequence selected from the group consisting of SEQ ID Nos. 3, 9, 11 and 13.

Claim 8 (withdrawn): The polynucleotide of Claim 5, wherein the polypeptide comprises the amino acid sequence selected from the group consisting of SEQ ID Nos. 4, 10, 12 and 14.

Claim 9 (withdrawn): An isolated polynucleotide comprising a nucleotide sequence encoding a polypeptide having aspartic endoproteinase activity, wherein the amino acid sequence of the polypeptide and the amino acid sequence are selected from the group consisting of SEQ ID No. 6 and 8, have at least 75% sequence identity based on the ClustalW alignment method, or the complement of the nucleotide sequence, wherein the complement contains the same number of nucleotides as the nucleotide sequence, and the complement and the nucleotide sequence are 100% complementary.

Claim 10 (withdrawn): The polynucleotide of Claim 9, wherein the amino acid sequence of the polypeptide and the amino acid sequence have at least 85% sequence identity based on the ClustalW alignment method.

Claim 11 (withdrawn): The polynucleotide of Claim 9, wherein the nucleotide sequence comprises a nucleotide sequence selected from the group consisting of SEQ ID No. 5 or 7.

Claim 12 (withdrawn): The polynucleotide of Claim 9, wherein the polypeptide comprises the amino acid sequence of SEQ ID No. 8.

Claim 13 (previously presented): An isolated polynucleotide comprising a nucleotide sequence encoding a polypeptide having cysteine proteinase activity, wherein the amino acid sequence of the polypeptide and the amino acid sequence of SEQ ID No. 16 have at least 70% sequence identity based on the ClustalW alignment method; or the complement of the nucleotide sequence, wherein the complement contains the same number of nucleotides as the nucleotide sequence, and the complement and the nucleotide sequence are 100% complementary.

Claim 14 (previously presented): The polynucleotide of Claim 13, wherein the amino acid sequence of the polypeptide and the amino acid sequence of SEQ ID No. 16 have at least 85% sequence identity based on the ClustalW alignment method.

Claim 15 (original): The polynucleotide of Claim 13, wherein the nucleotide sequence comprises the nucleotide sequence of SEQ ID No. 15.

Claim 16 (original): The polynucleotide of Claim 13, wherein the polypeptide comprises the amino acid sequence of SEQ ID No. 16.

Claim 17 (previously presented): A vector comprising the polynucleotide of Claim 1.

Claim 18 (currently amended): A ~~non-native~~ recombinant DNA construct comprising the polynucleotide of Claim 1 operably linked to a regulatory sequence.

Claim 19 (currently amended): A method for transforming an isolated host cell comprising transforming a the cell with the polynucleotide of Claim 1.

Claim 20 (currently amended): An isolated host cell comprising the ~~non-native~~ recombinant DNA construct of Claim 18.

Claim 21 (currently amended): The isolated host cell of Claim 20, which is selected from the group consisting of a prokaryotic cell, an eukaryotic cell and a plant cell.

Claim 22 (withdrawn): A transgenic plant comprising the cell of Claim 20.

Claim 23 (withdrawn): A method for modulating coffee flavour precursor levels in green coffee grains, the method comprising introducing into the coffee plant the non-native recombinant DNA construct of Claim 18.

Claim 24 (withdrawn): A vector comprising the polynucleotide of Claim 5.

Claim 25 (withdrawn): A non-native recombinant DNA construct comprising the polynucleotide of Claim 5 operably linked to a regulatory sequence.

Claim 26 (withdrawn): A method for transforming a cell comprising transforming a cell with the polynucleotide of Claim 5.

Claim 27 (withdrawn): A cell comprising the non-native recombinant DNA construct of Claim 25.

Claim 28 (withdrawn): The cell of Claim 27, which is selected from the group consisting of a prokaryotic cell, an eukaryotic cell and a plant cell.

Claim 29 (withdrawn): A transgenic plant comprising the cell of Claim 25.

Claim 30 (withdrawn): A method for modulating coffee flavour precursor levels in green coffee grains, the method comprising introducing into the coffee plant the non-native recombinant DNA construct of Claim 25.

Claim 31 (withdrawn): A vector comprising the polynucleotide of Claim 9.

Claim 32 (withdrawn): A non-native recombinant DNA construct comprising the polynucleotide of Claim 9 operably linked to a regulatory sequence.

Claim 33 (withdrawn): A method for transforming a cell comprising transforming a cell with the polynucleotide of Claim 9.

Claim 34 (withdrawn): A cell comprising the non-native recombinant DNA construct of Claim 32.

Claim 35 (withdrawn): The cell of Claim 34, which is selected from the group consisting of a prokaryotic cell, an eukaryotic cell and a plant cell.

Claim 36 (withdrawn): A transgenic plant comprising the cell of Claim 34.

Claim 37 (withdrawn): A method for modulating coffee flavour precursor levels in green coffee grains, the method comprising introducing into the coffee plant the non-native recombinant DNA construct of Claim 32.

Claim 38 (previously presented): A vector comprising the polynucleotide of Claim 13.

Claim 39 (previously presented): A non-native recombinant DNA construct comprising the polynucleotide of Claim 13 operably linked to a regulatory sequence.

Claim 40 (previously presented): A method for transforming a cell comprising transforming a cell with the polynucleotide of Claim 13.

Claim 41 (previously presented): A cell comprising the non-native recombinant DNA construct of Claim 39.

Claim 42 (previously presented): The cell of Claim 41, which is selected from the group consisting of a prokaryotic cell, an eukaryotic cell and a plant cell.

Claim 43 (withdrawn): A transgenic plant comprising the cell of Claim 39.

Claim 44 (withdrawn): A method for modulating coffee flavour precursor levels in green coffee grains, the method comprising introducing into the coffee plant the non-native recombinant DNA construct of Claim 39.